

# NOMAD II

## 32e

User Guide  
On-line Version

## *Getting Started*

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### Creative® NOMAD® II Player

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The following sections contain notices for various countries:

**CAUTION:** This device is intended to be connected by the user to a CSA/TUV/UL certified/listed IBM AT or compatible personal computers in the manufacturer's defined operator access area. Check the equipment operating/installation manual and/or with the equipment manufacturer to verify/confirm if your equipment is suitable for devices to be connected to it.

**ATTENTION:** Ce périphérique est destiné à être connecté par l'utilisateur à un ordinateur IBM AT certifié ou listé CSA/TUV/UL ou compatible, à l'intérieur de la zone d'accès définie par le fabricant. Consulter le mode d'emploi/guide d'installation et/ou le fabricant de l'appareil pour vérifier ou confirmer qu'il est possible de connecter d'autres périphériques à votre système.

## Notice for the USA

FCC Part 15: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, this notice is not a guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician.
- Caution

To comply with the limits for the Class B digital device, pursuant to Part 15 of the FCC Rules, this device must be installed in computer equipment certified to comply with the Class B limits.

All cables used to connect the computer and peripherals must be shielded and grounded. Operation with non-certified computers or non-shielded cables may result in interference to radio or television reception.

### Modifications

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

## Notice for Canada

This apparatus complies with the Class "B" limits for radio interference as specified in the Canadian Department of Communications Radio Interference Regulations.

Cet appareil est conforme aux normes de CLASSE "B" d'interférence radio tel que spécifié par le Ministère Canadien des Communications dans les règlements d'interférence radio.

## Compliance

This product conforms to the following Council Directive: Directive 89/336/EEC, 92/31/EEC (EMC), 73/23/EEC (LVD)



## Declaration of Conformity

According to the FCC96 208 and ET95-19 documents,

Name: **Creative Labs, Inc.**

Address: **1901 McCarthy Boulevard**

**Milpitas, CA, 95035**

**United States**

**Tel: (408) 428-6600**

declares under its sole responsibility that the product

Trade Name: **Creative Labs**

Model Number: **DAP-3204**

has been tested according to the FCC / CISPR22/85 requirements for Class B devices and found compliant with:

EMI/EMC: ANSI C63.4 1992, FCC Part 15 Subpart B

Canadian ICES-003 Class B

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesirable operation.

### Compliance Manager

**Creative Labs, Inc.**

**20 October, 1999**

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# Introduction

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## Digital Audio: Anytime, Anywhere

The NOMAD II digital audio player is the latest exciting device from Creative's Personal Digital Entertainment (PDE) Internet solutions. NOMAD II is solid-state for crystal clear, skip-free, digital audio anywhere—even during strenuous activity. You can enjoy music transferred from your computer to the Player's 32MB onboard Memory, use NOMAD II to make and playback voice recordings, or listen to FM radio from stations that you preset.

The NOMAD II is designed to be the next-generation of portable digital audio platforms, offering MP3 support with reprogrammable firmware that supports multiple digital audio formats and software extensions. NOMAD II gives you the flexibility to upgrade to future audio compression standards by downloading from the NOMAD web site at [www.nomadworld.com](http://www.nomadworld.com)—your player will always be up-to-date with the latest in music, audio technology, and features. Its FM tuner and voice recording capabilities make the NOMAD II one of the most versatile, feature-rich players on the market.

## NOMAD II Software



Your NOMAD II software  
and samples may vary.

NOMAD II includes the following software:

- For Windows: Creative PlayCenter 2 for managing your favorite digital audio files on your computer and NOMAD II. It is also an integrated encoder for ripping audio CD tracks into compressed digital audio files.
- For Macintosh: SoundJam MP the ultimate music center for your Mac, that manages your digital audio files as well as converting almost any kind of sound file into MP3 files.

You can download MP3 files through Internet sites or on-line services for playback on NOMAD II.

# System Requirements

The minimum system requirements for NOMAD II are as follows:

- A Pentium® 200 MHz or higher PC (Pentium II or better recommended for MP3 encoding)
- 32 MB RAM (64 MB recommended)
- 12 MB free hard disk space (or more for audio content storage)
- SVGA graphics adapter (256 colors, 640x480 minimum)
- USB port
- CD-ROM or DVD-ROM drive with digital audio extraction support
- Sound Blaster® Live!™ for Environmental Audio™ effects MP3 encoding
- Microsoft® Windows® 98, Windows 2000 or Windows Me
- Installed mouse
- Recommended: Internet connection for Internet content downloading or Cddb support (any expenses incurred are the responsibility of the user)

## Macintosh

The minimum system requirements for NOMAD II are as follows:

- Mac® OS version 8.6 or higher
- iMac™, G3 or higher
- Internet connection for Internet content downloading or Cddb support  
(any expenses incurred are the responsibility of the user)
- 32 MB RAM (64 MB recommended)
- USB port
- USB Manager, version 1.2 or higher
- 12 MB free hard disk space (more for audio file storage)

# Handling Instructions

## *Avoid severe impact on the Player*

- Vibration during walking or exercising does not affect the playback with the NOMAD II Player. However, dropping the Player on a solid surface or dropping a heavy object on the Player may result in distorted sound and internal damage.

## *Prevent water from entering the Player*

- Water entering the Player can damage it.
- When the Player comes into contact with water, dry it immediately with a dry cloth.
- If water has entered the Player, remove the battery and flash memory card. Allow the interior, the battery, and the flash memory card to dry completely before re-assembling.
- If the Player is not functioning, call Technical Support.

## *Storing the Player set*

- When storing the NOMAD II Player and memory cards, avoid places with high humidity, strong magnetic fields, or high heat.

# NOMAD II Player

Your NOMAD II Player includes the following items:



NOMAD II Player



Stereo headphones



Protective pouch



AA alkaline battery



Remote control



Software installation CD  
and MP3 content CD



USB cable

\* Depending on the model you purchased, your NOMAD II Player may not include a flash memory card.

## Optional accessories



Although most other flash memory cards are compatible, we recommend Creative flash memory cards for your NOMAD II Player.

Accessories for your NOMAD II Player that can be purchased separately include:

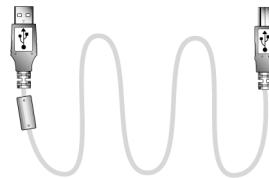
- Docking station
- USB cable
- Rechargeable NiMH battery
- AC adapter (for docking station)
- Flash memory card
- Car cassette adapter



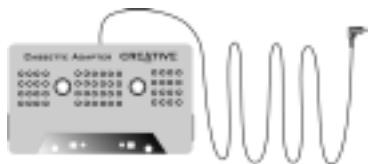
AC adapter



Flash memory card



USB cable



Car cassette adapter



Rechargeable NiMH battery

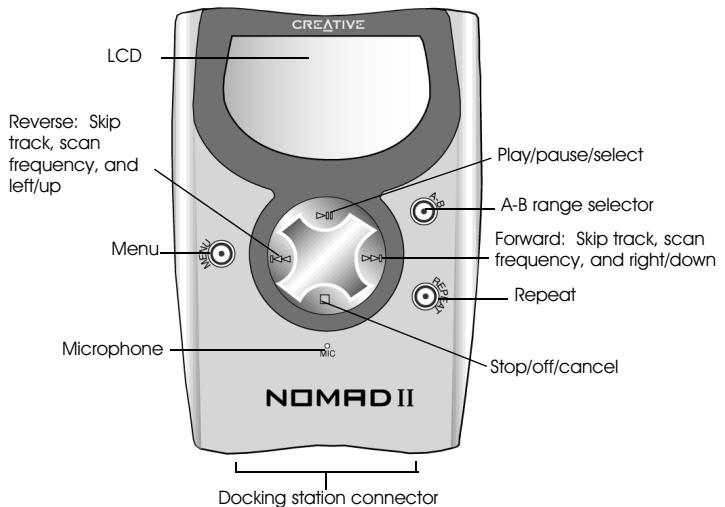


Docking station

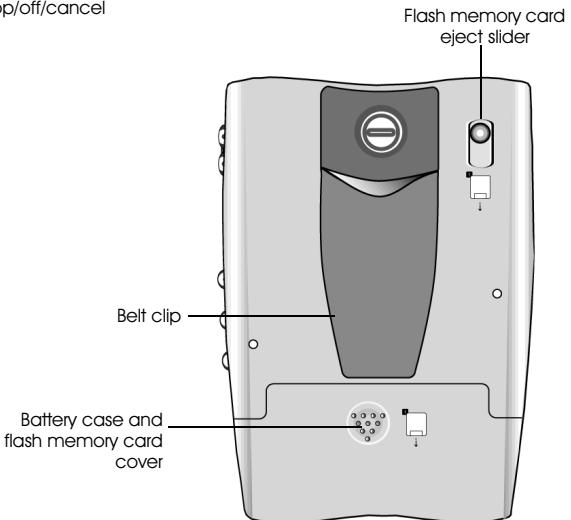
For the latest in NOMAD II accessories, visit [www.nomadworld.com](http://www.nomadworld.com).

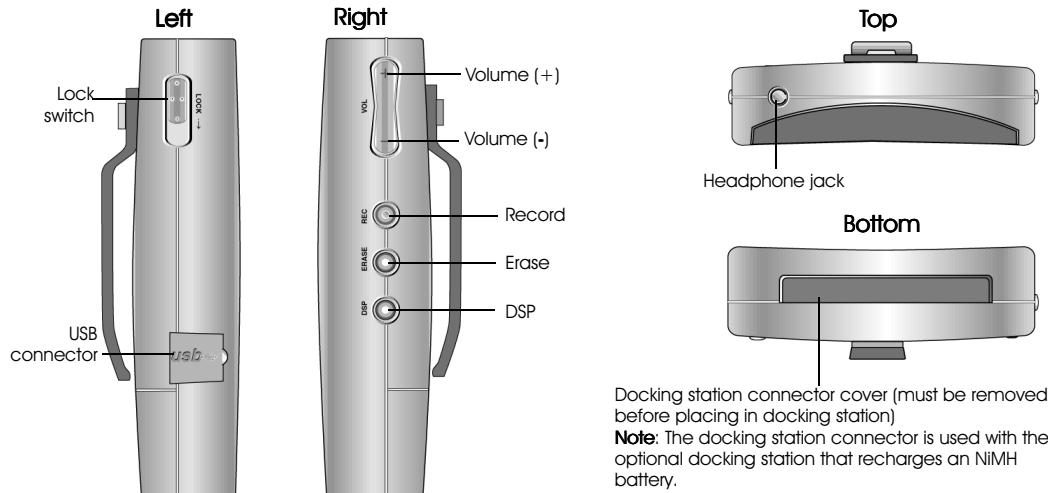
## Controls

### Front

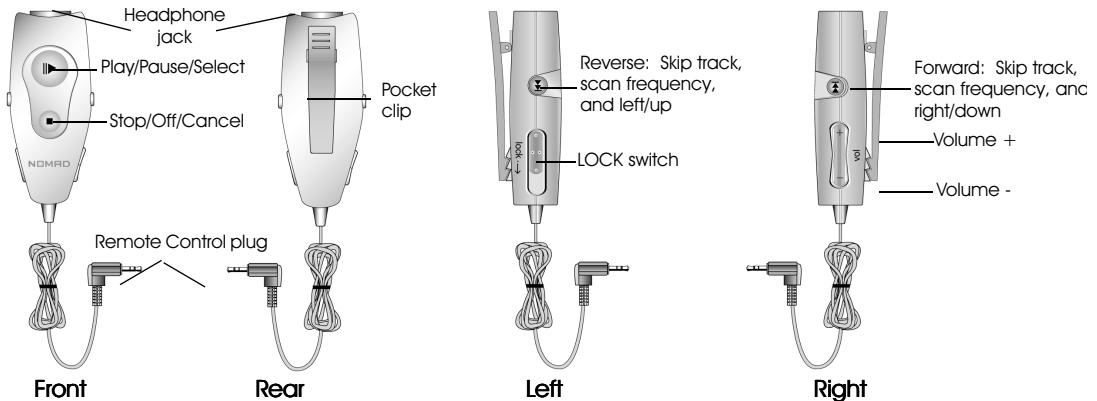


### Back





## Remote Control

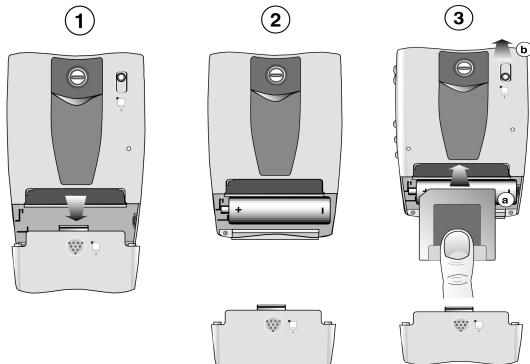


# Setting Up NOMAD II Player

## Battery and Flash Memory Card

*Insert the battery and flash memory card:*

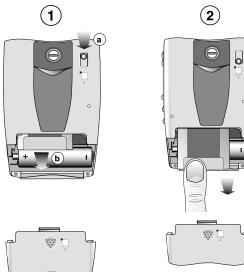
1. Remove the battery/flash memory card cover.
2. Insert the battery.
3. Ensure that the flash memory card (a) is in the correct position—the notched corner must be at the top left—before inserting. The eject button (b) must be in the open position.
4. Replace the battery/card cover.



MP3 files can be stored on a flash memory card and played on NOMAD II.

*To remove the flash memory card:*

1. Remove the battery/card cover and push the eject button (a) down. The card is pushed out.
2. Use your thumb to slide the card (b) out.



## Headphones and Remote Control

Connect the headphones and remote control to the NOMAD II Player as shown below.



The headphones are designed to be worn as shown in the figure to the right.

Your NOMAD II Player is now ready for you to listen to the sample on the flash memory card, listen to an FM radio station, or make a voice recording.

## Installing the Software for PC

Install the programs on the installation CD before running any of the applications or listening to the music on the sample CD.

*To install the software for Windows:*

1. Insert the Creative NOMAD II installation CD into the CD-ROM drive. If the Setup program runs automatically, go to step 4 below.
2. Click the Start button on the Windows Taskbar and click Run.
3. On the Run dialog, type **D:\CTRUN\CTRUN.EXE** (**D:\** is your CD-ROM drive) and click the OK button.
4. On the Creative NOMAD II setup screen, the applications to be installed are selected. Click the Right Arrow button to begin the installation.
5. When the Creative Product Registration dialog appears, click the Next button to begin your on-line registration.

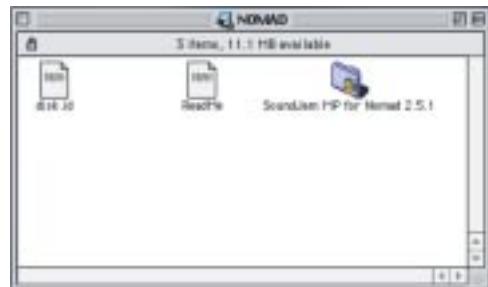
If you want to register your NOMAD II later, press the Cancel button.

## Installing the Software for Mac

6. After completing (or cancelling) the registration, follow the instructions on-screen to continue the installation.
7. When the installation of each application is complete, you may be asked if you want to install additional applications. Complete the installation of all chosen applications before restarting your computer.
8. When prompted to restart your computer, leave the CD in the CD-ROM drive and select "Yes, I want to restart my computer now" and click the Finish button.

*To install the software for Macintosh:*

1. Insert the Creative Installation CD into your CD-ROM drive. Access the installation screen by double clicking the NOMAD II icon.
2. When the NOMAD II Installation screen appears, double click on the SoundJam MP Installer.
3. Click Install on the next SoundJam Installation screen.  
Note: Sound Jam's Installer might detect earlier versions of SoundJam, in which case it is best to select OK and install over the older version.
4. Restart your system when prompted.



## Registering NOMAD II

If you do not register your NOMAD II during software installation, you may complete the on-line registration at any time.

*To register your NOMAD II:*

1. You may start on-line registration by either of the following methods:
  - Double-click the NOMAD II registration icon in the Windows Taskbar.
  - Click Start on the Windows Taskbar, select Programs, Creative, Product Registration, and click on Register Creative NOMAD.
2. Follow the on-line instructions to complete the registration.

# Connecting the NOMAD Player to a Computer



You may leave your computer running while connecting the NOMAD II Player to the USB port.

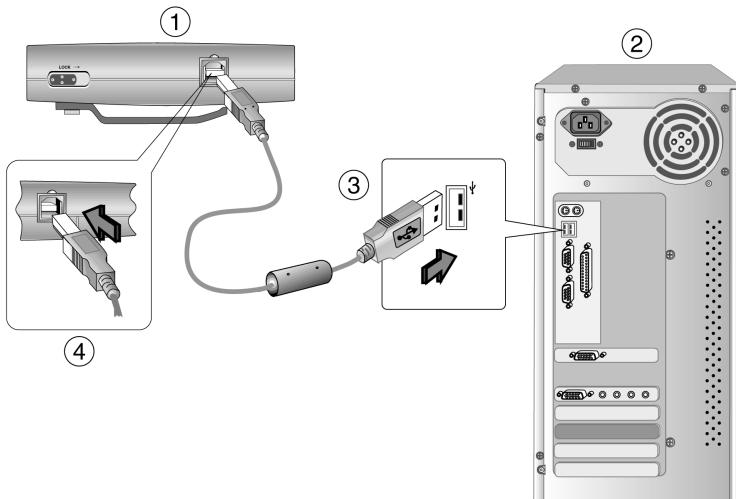
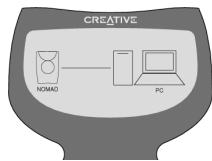


The Player's USB connector is protected by a rubber flap. Pull the flap out of the connector to insert the jack.

To download or upload files between the NOMAD II Player and your computer, the Player must be connected to the computer via the USB port.

*To connect the NOMAD II Player to your computer:*

1. Check that the battery is properly installed in the Player.
2. Position the computer so that you can easily reach the USB port.  
**Note:** The USB port may be located on your computer's front panel instead of the rear as shown.
3. Using the USB cable included with the Player, connect the rectangular connector to the USB connector on your computer.
4. Connect the square connector to NOMAD II Player. When the cable is properly connected and the computer is running, the Player LCD displays a connection diagram.



# Installing the NOMAD II Driver



Before you re-install the driver, *manually* remove the old driver if it is listed.

Once your NOMAD II Player is properly connected, your computer displays the Add New Hardware Wizard dialog.

To install the NOMAD II driver:

1. On the Add New Hardware Wizard dialog, click the Next button.
2. Select “Search for the best driver for your device. (Recommended)” and click the Next button.
3. Clear the “Floppy disk drives” check box and select “CD-ROM drive.”
4. Click the Next button twice and, on the screen similar to the one to the right, click the Finish button.
5. Click Start on the Windows Taskbar, select Settings, and click on Control Panel.
6. On the Control Panel, double-click the System icon.
7. On the System Properties dialog, click the Device Manager tab.
8. On the Device Manager tab page, click the plus sign (+) preceding Universal Serial Bus controllers. Creative NOMAD II must be included in the list.  
If the NOMAD II driver is not included, disconnect the Player from the computer. Reconnect the Player to the computer—you may want to use a different USB port, if available—and re-install.



## NOMAD II Detector



NOMAD II Detector must be enabled or open in order for your computer to communicate with the Player.

NOMAD II Detector is represented by an icon placed on the Windows Taskbar. It detects the connection between the NOMAD II Player and the computer via a USB cable, and automatically runs the NOMAD II PlayCenter 2.



*To disable NOMAD II Detector:*

1. Right-click the NOMAD II Detector icon to display the Detector menu. “Enable NOMAD II Detector” is selected by default.
2. Click Enable NOMAD II Detector to disable it and remove the icon from the Taskbar.  
To enable it, click the Start button on the Windows Taskbar, select Programs, select Creative, select Creative NOMAD II, and click on NOMAD II Detector.

# Using Your NOMAD II Player

## Power On/Off

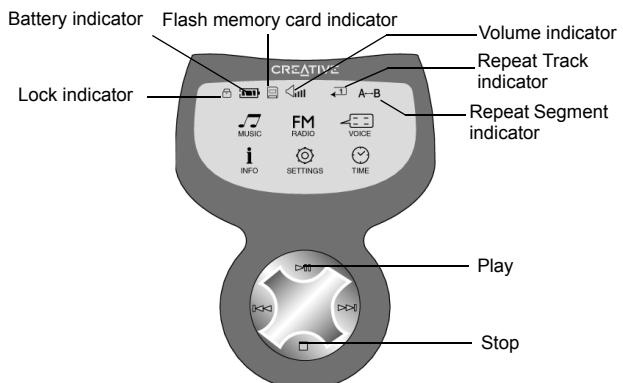


If the player is idle for three minutes, it turns off automatically. You can change the Power Off time in the Settings Menu.

See "To set Power off when idle." on page 21.

### *To turn the power on/off:*

1. Press and hold the Play button to turn on the power.  
The NOMAD II main menu appears as shown.
2. To turn off the power, press and hold the Stop button for more than 1 second.

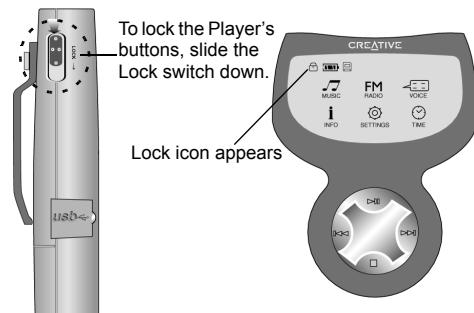


## Lock



The Lock switch only locks the buttons on the Player. You can still operate the Player by pressing the buttons on the remote control if the Lock switch on the remote control is not turned on.

Ensure that the Lock switch is not on before you continue.

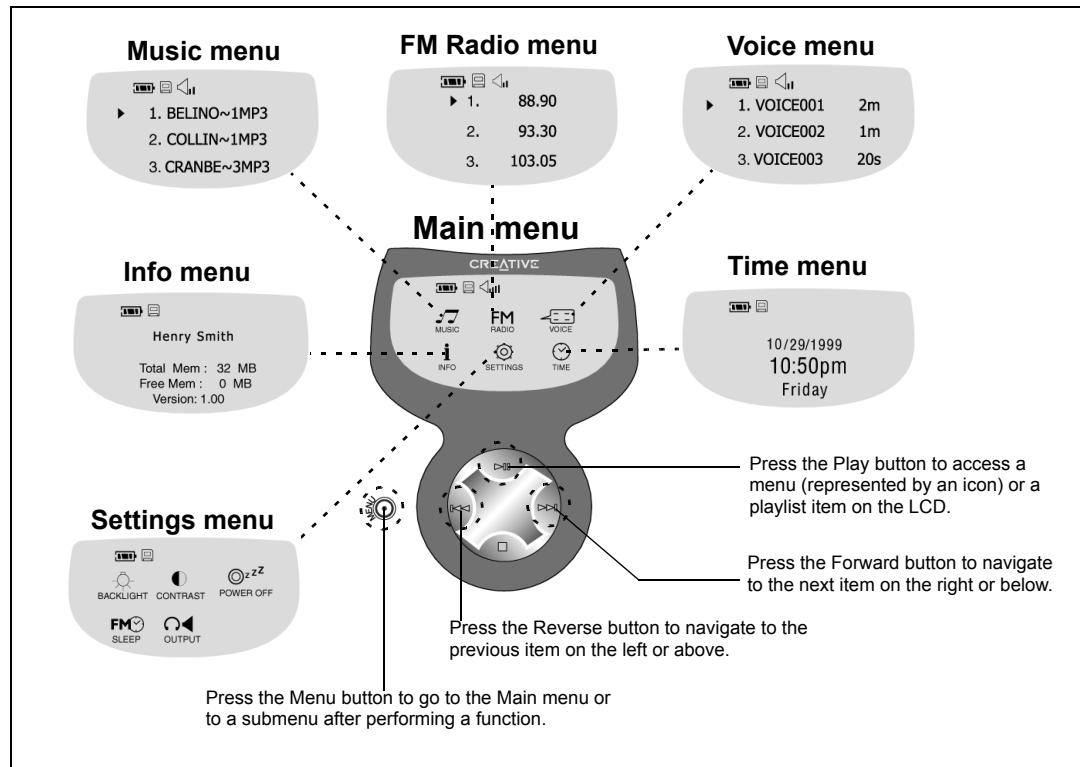


# Navigating and Accessing Menus



The display on your Player may vary slightly from the examples shown.

There are six menus that control the operations of the Player. They are accessed from the Player's Main menu



# Music Menu



The Player must be disconnected from the computer before you can listen to MP3 files or FM radio, or make voice recordings.



You can press and hold the Play button to toggle to the FM Radio menu, the Voice menu, and the Music menu.

To access the Music menu, press the Play button when the Music icon is blinking. The Music menu appears, with the first file selected.

New audio formats can be downloaded into the NOMAD II Player when they are available. Visit [www.nomadworld.com](http://www.nomadworld.com) for any new releases.

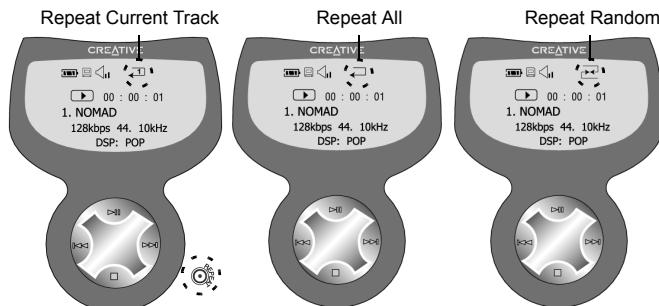
*To play an MP3 File:*

1. On the Main menu, press the scan back/forward button to select the Music menu—the icon blinks when Music is selected.
2. On the Music menu, use the scan back/forward to select a title.
3. Press the Play button to begin playing the MP3 file. Press the Play button again to pause. During Pause, the Pause icon appears. During playback, the Play icon, time elapsed, song order, the song title, artist, bit rate, sampling rate, and DSP mode are displayed on the LCD.
4. Press the Stop button to stop the playback. If held down for longer than one second, the power shuts off.



*To repeat MP3 playback:*

1. Press the Repeat button and then select either Repeat Current Track, Repeat All, or Repeat Random which appear in order.



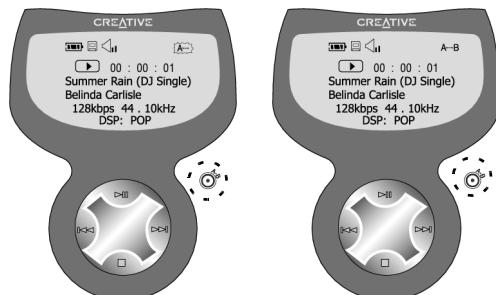
Only the User option allows you to customize Bass and Treble.

To set either level, press the Forward or Reverse button to select the desired level and then press VOL+ or VOL- to increase or decrease the level.

To cancel the operation, press the Repeat button until the Repeat indicator disappears from the LCD.

*To repeat a section of a file continuously:*

1. Press the A-B button when a file is playing to mark the point from which you want the section to start; press the button again at the point at which you want the section to end.
2. To cancel the operation, press the A-B button again. The A-B indicator disappears from the LCD and the file continues playing from the point at which the section ends.

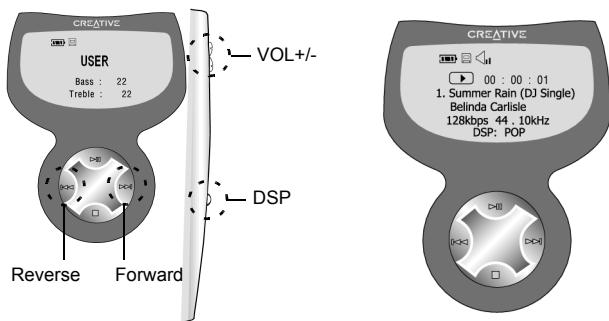


### To use the DSP Equalizer:

1. Press the DSP button to select the Equalizer mode. Then press repeatedly to select an option among Normal, User, Pop, Rock, Classic, and Jazz that appears in turn.

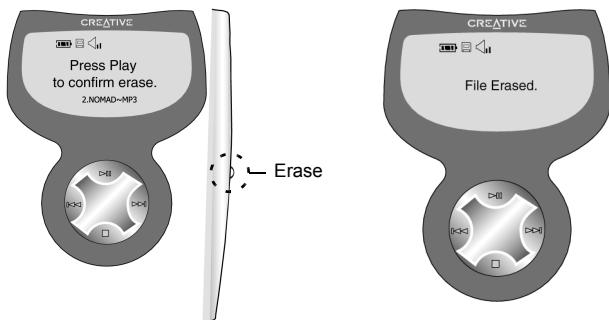


You can also delete an MP3 file while playing.



### To erase an MP3 file:

1. Press the Menu button to go to the Music menu.
2. Select the desired track using the Forward or Reverse button.
3. Press the Erase button. A confirmation message appears on the LCD. Press the Play (Select) button to erase.
4. To cancel, press any button other than the Play button. Or, do not press any button for three seconds.
5. When the action is cancelled, it returns to the Music menu.



# FM Radio

To open the FM Radio menu:

1. To go to FM Radio menu, press the Play button when the FM Radio icon is blinking.  
The Preset Channel menu appears, with Channel 1 selected.

All the Preset Channels are tuned to 87.5 KHz when you first open the FM Radio menu.

Use NOMAD II Settings option to edit the Preset Channels easily. For details, refer to online Help.

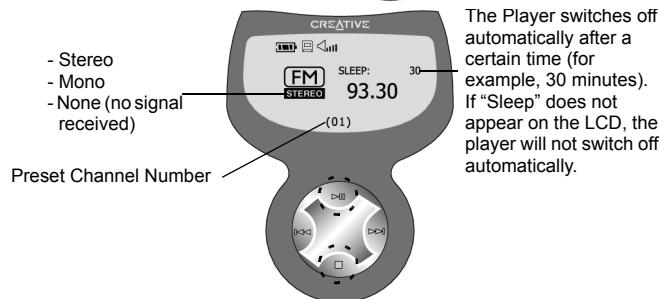
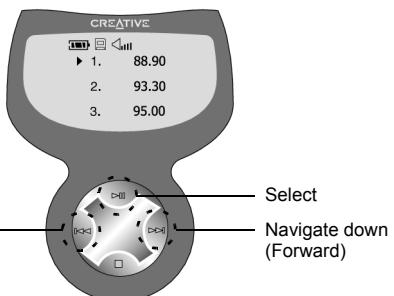
To listen to the FM radio:

1. On the Main menu, press the Forward button to select FM—the icon blinks when selected.
2. Press the Play button to display the list of preset FM frequencies.  
Press the Play button again or the Stop button to go to the next or previous Preset Channel.
3. Press and hold the Forward button to scan for an FM radio station.



You can scan for available FM stations in your area by holding down the Record button while the list of presets is displayed.

You can change the Radio sleep time on the Settings menu.



*To preset FM radio stations:*

1. Press and hold the Forward button or Reverse button to scan for FM radio stations automatically. Or, press the Forward or Reverse button once to advance 0.05 KHz every time to scan for stations manually.



2. Press the Rec button. The original Preset Channel appears.
3. Press the Forward or Reverse button to change the Preset Channel number.
4. Press the Play or Rec button to assign the tuned radio frequency to the Preset Channel.

To check whether the Preset Channel is assigned correctly, press the Menu button to display the Preset Channel playlist.

# Voice Menu



The display on your Player may be different than shown. For example, the owner's name may not appear.



The display on your Player may vary slightly from the examples shown.

## To make a voice recording:

1. Press the Menu button to display the Main menu.
2. Press the Forward button to select Voice—the Voice icon blinks when selected.
3. Press the Play button to display the Voice menu.
4. Press and hold the Rec button to start the recording. The recording icon, time elapsed, the word "Recording," and the file name appear on the LCD.
5. Press the Stop button to stop recording.

When the memory is full, a message appears and recording stops automatically.

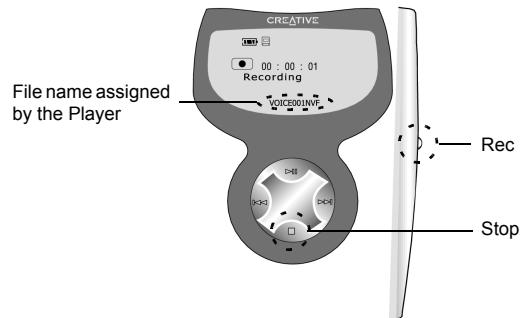
## To play a voice recording:

1. Press the Play button to play back the current track. Press it again to pause. To resume the playback of the current track, press the Play button.

## To erase a voice recording:

1. Select the desired track using the Forward or Reverse button.
2. After selecting a track, press the Erase button. A message for confirmation appears on the LCD.
3. Press the Play button to erase.
4. To cancel the operation, press any button other than the Play button or do not press any button for three seconds.
5. When the action is cancelled, it returns to the previous state.

Each of the track numbers following the erased one decreases by one.



## Information Menu

To open the Information menu:

1. Press the Play button when the INFO icon is blinking.

The Info menu appears with the firmware date, the total memory, and free memory of the flash memory card.



## Settings Menu

The Settings Menu screen shows several configuration options:

- Backlight**: Backlight on interval 5 sec.
- Contrast**: Contrast 20.
- Power off if idle**: Power off if idle for 2 min.
- Radio sleep time**: Radio auto off after 30 min.
- Audio output**: Player is driving headphone.

Below the menu items is a summary of the current settings:

- BACKLIGHT
- CONTRAST
- POWER OFF
- SLEEP
- OUTPUT

At the bottom of the screen is a circular navigation pad with arrows pointing up, down, left, and right, and a central square button.

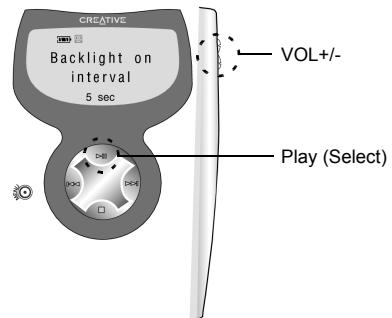
Instructions at the bottom:

- Press the Reverse button to navigate to the previous icon on the left or above.
- Press the Forward button to navigate to the next icon on the right or below.
- Press the Play button to access an icon.

*To set Backlight on interval:*

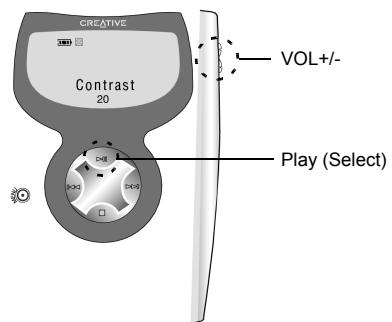
1. Navigate to the Backlight icon and then press the Play button.
2. Press the VOL+ or VOL- buttons on the player or the Forward or Reverse buttons on the remote control to increase or decrease the duration the backlight is activated on the LCD.
3. Press the Play button to save the new settings. The word "Saved" appears on the LCD and the Settings Menu appears.

The maximum duration is 12 seconds.



*To set Contrast:*

1. Navigate to the Contrast icon and then press the Play button.
2. Press the VOL+ or VOL- buttons on the player or the Forward or Reverse buttons on the remote control to increase or decrease the contrast level.
3. Press the Play button to save the selected setting. "Saved" appears on the LCD and the Settings Menu appears.

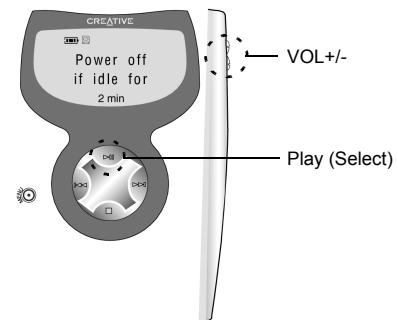




The DSP button does not operate in lineout mode.

#### To set Power off when idle:

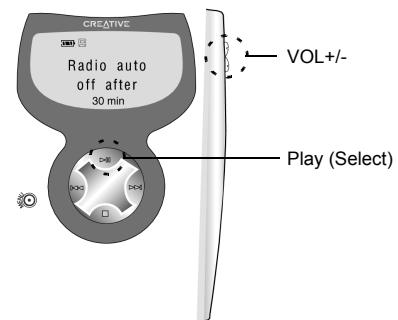
1. Navigate to the Power Off icon and press the Play button.
2. Press the VOL+ or VOL- buttons on the player or the Forward or Reverse buttons on the remote control to increase or decrease the time after which the player will switch off if there are no operations.
3. Press the Play button to save the selected setting. "Saved" appears on the LCD and the Settings Menu appears.



#### To set Radio sleep time:

1. Navigate to the FM Sleep icon and then press the Play button.
2. Press the VOL+ or VOL- buttons on the player or the Forward or Reverse buttons on the remote control to increase or decrease the time after which the radio automatically switches off.
3. Press the Play button to save the selected setting. "Saved" appears on the LCD and the Settings Menu appears.

The maximum time before the player switches off is three hours.



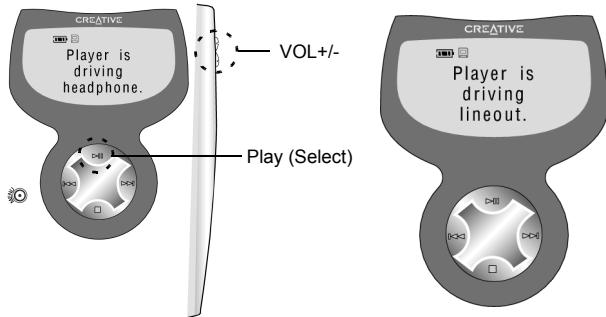
Remember to visit [www.nomadworld.com](http://www.nomadworld.com) for the latest updates and enhancements for your NOMAD II Player.

You may also enjoy the new LAVA software from Creative Labs. For more information, visit [www.lava.com](http://www.lava.com) on the Internet.

## Time Menu

*To set Audio output:*

1. Navigate to the Output icon and then press the Play button.
2. Press the VOL+ or VOL- buttons on the player or the Forward or Reverse buttons on the remote control to select headphone output or line output for audio.
3. Press the Play button to save the selected output.  
“Saved” appears on the LCD and the Settings Menu appears.

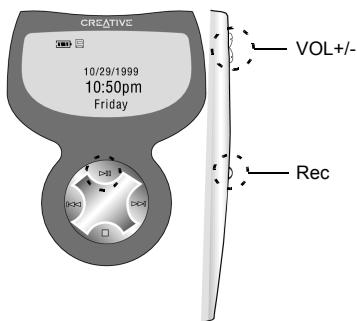


*To open the Time menu:*

1. Press the Play button when the Time icon is blinking. The menu appears with the current date, time and day.

*To set the date, time, and day:*

1. Press and hold the Rec button to select setting mode. The Hour value blinks, ready to be set.
2. Press the VOL+ or VOL- buttons on the player to increase or decrease the Hour value.
3. Press the Forward or Reverse button to shift to the Minute, AM/PM, Day, and Date in order and repeat step 2 to adjust the values.
4. Press the Play button when the setting is completed.



# Using Your NOMAD II Software in Windows

This chapter describes only the basic tasks available with PlayCenter 2. For more information, see the PlayCenter 2 Help file by clicking the question mark (?) on the PlayCenter 2; or click Start on the Task bar, choose Programs, choose Creative, choose PlayCenter 2.0, and click on Creative PlayCenter 2.0 Help.

## PlayCenter 2

Creative PlayCenter 2 allows you to manage the contents on your NOMAD II:

- Play MP3 files on the NOMAD II.
- View and manage the contents of the NOMAD II.
- Upload MP3 and other files to the NOMAD II.
- Download the contents (except MP3 files) to the computer.

*To open PlayCenter 2:*

1. Connect NOMAD II to your computer. (See “Connecting the NOMAD Player to a Computer” on page 8.)
2. You can start PlayCenter 2 by either of the following methods:
  - Double-click on the PlayCenter 2 icon on the Windows Desktop.
  - Click Start on the Windows Task bar, select Programs, select Creative, select Creative PlayCenter 2.0, and click on Creative PlayCenter 2.0.



*To access help information:*

1. On the PlayCenter 2, click the question mark (?) in the upper right corner.
2. On the Help screen, double-click the book icon to display additional topics.

*To change the PlayCenter 2 settings:*

1. Click on the Settings button to display the Setting dialog.
2. Click on one of the tabs to display the dialog on which changes can be made to the PlayCenter 2:
  - PlayCenter 2: Selects modules (Audio CD, My Computer, NOMAD II, PC Music Library) to be displayed on either panel.
  - PC Music Library: Assign folder for storing files on your PC's hard disk drive.
  - My Computer: Select the types of media files that you want PlayCenter 2 to display.
  - CD Ripping: Configure a CD-ROM drive for digital audio extraction.
  - Encoder: Select between MP3, WMA and WAV compression methods.
  - CDDB: Select whether or not to automatically retrieve CDDB information for audio CD.
  - Transfer: Select options for file transfer.



*To play a track using PlayCenter 2:*

1. Click the NOMAD II button.
2. Double-click All Tracks to display all of the tracks available.
3. Select a track from the list and press the play button at the bottom of the window.  
You may listen to the track only through devices attached to the II, such as headphones or speakers.

## Changing Skins

The PlayCenter 2 display is excellent for managing and transferring files between your NOMAD II and your PC. However, the alternate *skins* provide a more user-friendly access to playing and listening to tracks while connected to the computer.

*To change the PlayCenter 2 skin:*

1. On the PlayCenter 2 display, click the Settings button.
2. Click on the Change Skin tab.
3. On the Change Skin tab page, select the skin that appeals to you. The each skin is previewed as you select it in the list of available skins. When the skin you want is shown in the preview, click OK to return to PlayCenter 2.
4. To switch to the skin you have chosen, click the Skin icon  on the PlayCenter 2 display.



## Formatting the Flash Memory Card



Formatting a flash memory card deletes any existing files.

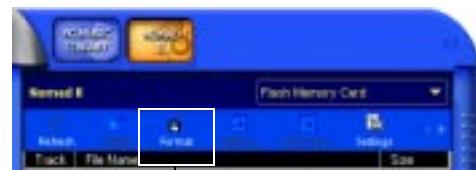
*To format the flash memory card:*

1. Select the icon for the flash memory card:
  - Open the View menu by clicking on the arrow at the top left of the Manager.
  - Click on Flash Memory Card.
2. With the Flash Memory Card contents displayed, click the Format icon.

If the flash memory card is already formatted, you can add or delete files to the card.

If you change the flash memory card, click the Refresh button  to display the file information for the new card.

To check the status of the flash memory card, click the View box at the top of the Player window and click Information.



## Downloading MP3 Files



You must have MP3 files on your computer in order to download them to NOMAD II Player.

You can download MP3 files located on your computer to the NOMAD II Player.

*To download MP3 files:*

1. Connect the Player to your computer. You may connect the Player to a USB port while the computer is running.
2. Start Creative PlayCenter 2 by clicking on the Start button on the Windows Task bar, select Programs, select Creative, select Creative PlayCenter 2, and click on Creative PlayCenter 2.
3. On PlayCenter 2's My Computer window (on the right), click View and browse to the folder on your computer that contains MP3 files.
4. Select the files you want to download and then click the Transfer button.

When the download is complete, you can listen to a file on the Player.



## Managing Files

### Converting and Transferring Files

You can use the PlayCenter 2 to convert and transfer files between the NOMAD II and your computer, add or delete files, connect to the NOMAD web site, and upgrade the NOMAD II's firmware.

*To convert CD audio tracks to MP3 on your hard disk drive:*

1. Insert an audio CD into your CD-ROM drive.
2. Click the Audio CD button to the left of the track list window.
3. Select the drive in which the CD was placed. The list of tracks on the CD are displayed in the track list window.



4. Click TRANSFER/RIP on the right side of the PlayCenter 2 and select the destination for the converted tracks, for example, Music Library.
5. Select the track(s) to be converted and transferred to your NOMAD II (or to your PC's hard disk drive).
6. The PlayCenter 2 shows the status of the selected tracks in the Transfer Queue window.



*To copy files from your hard disk to the NOMAD II:*

1. On the PC Music Library window, select the tracks to be uploaded to the NOMAD II.
2. Click the arrow button pointing to the NOMAD II window.

The Transfer Queue scale at the bottom of the PC Music Library window displays the status of the transfer.



*To transfer files from the NOMAD II to your computer:*

1. In the My Computer window, open the folder to which you want to copy the file from the Player.
2. Select the file in the Player that you want to copy to your PC's hard disk (or other destination).
3. Click the Upload button on the NOMAD II window to copy the file to your PC.

## Deleting Files

*To delete files from NOMAD II:*

1. In the NOMAD II window, select the file to be deleted.
2. Click on the Delete icon to permanently remove the file from NOMAD II.

*To delete files from your computer's hard disk:*

1. In the My Computer window, select the file to be deleted.
2. Click on the Delete icon to permanently remove the file from your computer's hard disk. You are asked to confirm the deletion.

## Creating Play Lists

After you create a play list on your computer, you can copy it to the NOMAD II.

*To create a play list on the NOMAD II:*

1. Click the NOMAD II button on PlayCenter 2.
2. Click the NOMAD II menu.
3. On the menu, select Play List.
4. Click New on the PlayCenter 2 Toolbar.
5. In the Play List box, enter a title for your play list.



6. In the My Computer window, display a music library containing the track(s) you want to add to the play list.
7. Select the track(s) you want to add to the play list.
8. Click the left arrow button to add the track(s) to the play list. If the track(s) are located on your computer, they are copied to the NOMAD II.

*To create a play list on your computer:*

1. Click the PC Music Library button on the PlayCenter 2 window.
2. Click Play Lists in the PC Music Library window.
3. Click New.
4. In the Play List 1 box, enter a new name for the play list.
5. Follow the instructions, starting with number 6, above.



## Connecting to the NOMAD Web Site

*To connect to the NOMAD web site:*

1. Click on the Internet button on PlayCenter 2.

Or, type the URL address ([www.nomadworld.com](http://www.nomadworld.com)) into your browser's Location box and press the ENTER key.

You must have an Internet service provider in order to make the Internet connection.

## Upgrading NOMAD II's Firmware

*To upgrade the NOMAD II:*

1. Click on the Internet button on PlayCenter 2.

Or, type the URL address ([www.nomadworld.com](http://www.nomadworld.com)) into your browser's Location box and press the ENTER key.

2. On the NOMADWorld home page, click on Software Downloads.

3. Under Downloads, look for an upgrade to NOMAD II (or PlayCenter 2). Follow the instructions on the web site to download the upgrade file.

## Environmental Audio

You may use Environmental Audio effects when recording a title from an input source, such as a CD-ROM. To include effects, display the Recorder Settings dialog and enable CD Recording Mode, Analog; and choose an effect. When you include the effect with the recording, it remains in the file; you must re-record the title to remove the effect.

In the Playlist, highlight the title to which you want to add Environmental Audio effects and right-click on it. If you add Environmental Audio effects, the title in the Playlist is preceded by "EA."

*To enhance an audio file or audio CD track with EAX:*

1. Select the track to be enhanced with an EAX environment.
2. Click the EAX button to display the EAX menu.
3. Select the Effects or Environment option.
4. Click on an Effect/Environment.
5. Click on the Rip To arrow to convert the file with the EAX enhancement.



# Using SoundJam™ MP with Macintosh OS

SoundJam MP is the ultimate MP3 music center that can play MP3 files in any order. SoundJam can also:

- Display animated graphics.
- Change its look, “skin,” at your command.
- Play music CDs with visuals.
- Convert almost any kind of sound file, including those on your favorite CDs, into MP3 files that you can transfer to your NOMAD II.
- Download new MP3 files directly from the Internet with the built-in Web menu.
- Play streaming music from the Internet—live broadcasts as well as commercial recordings that come in the form of real-time transmissions, not downloadable files.
- Automatically fill in the names of your CDs, songs and artists by linking to CDDB, the Internet’s massive CD-ROM information database.
- Serve as a database of your own music. Sort by song name, artist name, album, and much more.

With SoundJam installed there are several methods for opening and playing a music file:

- Files opened or created in SoundJam can be opened by double-clicking the file.
- Drag the file’s icon over the SoundJam icon.  
Or, with SoundJam or a SoundJam window open, drag the file icon—or even the folder—to SoundJam or the SoundJam window.
- With SoundJam open, open the File menu, choose Open, and navigate to the folder in which the file or files are located. Double-click on the file you want to play.

## SoundJam MP and NOMAD II

### NOMAD II WINDOW

When SoundJam MP is installed on your Mac and the NOMAD II is correctly connected to your Mac, the main NOMAD screen appears and an entry for the NOMAD window is added to SoundJam's Window menu.

Voice files created with the NOMAD II have a file name extension of .NVF. SoundJam can manipulate and play .NVF files in the same way it works with any other file.

**NOMAD II Logo:** Click this logo to launch your Web browser and access the Creative Labs NOMAD Web site:

[www.nomadworld.com](http://www.nomadworld.com). It includes music downloads, information about the NOMAD hardware and accessories, and more.

**Content Gauge:** The content gauge monitors the memory in your NOMAD II.

**Playlist:** In the NOMAD II playlist, the first column lets you list tracks by album, artist, genre, name, size or time. The subsequent columns also allow you to list tracks by these categories. The display at the top of the playlist tells you how many items are in the playlist and how much space the files require.

MP3 file names in the NOMAD II playlist appear with a maximum of eight characters followed by the MP3 file name extension. When the NOMAD II actually plays the files, the song's full title is displayed.

**Add...:** Clicking this button brings up the standard Macintosh get file dialog box, where you can select files that you want to add to the playlist. It's much easier, however, to simply drag files from another SoundJam playlist or the Macintosh Finder into the NOMAD II playlist. As soon as you drag the files, SoundJam transfers the files to the NOMAD II, and keeps you updated on the transfer's progress.

**Settings...:** Clicking this button brings up a window where you can select the bass, treble, balance and volume of your NOMAD II.



# Opening SoundJam

Once SoundJam is properly installed on your hard disk drive, it is ready for you to run and enjoy. See “Installing the Software for Mac” on page 7 for installation instructions.

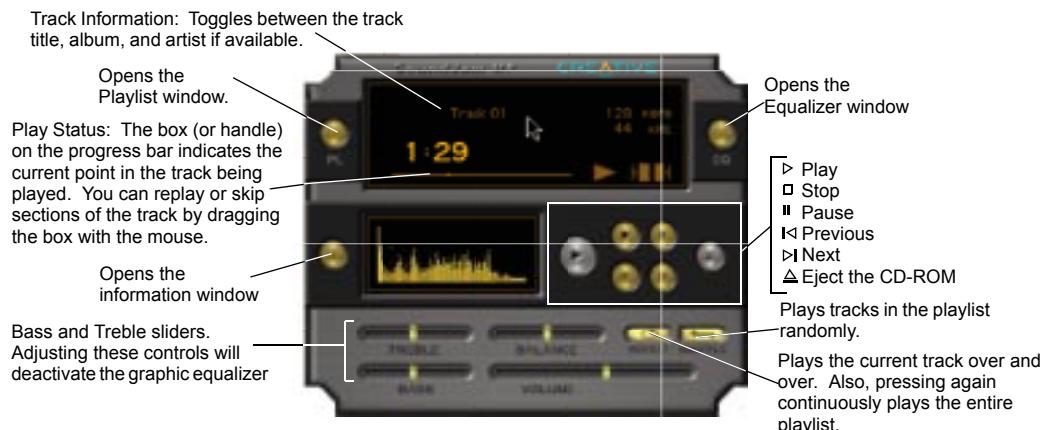
## To open SoundJam:

1. Double-click on the SoundJam MP icon to start the program.



# SoundJam Controls

The SoundJam control panel contains a volume slider, play and stop buttons, a counter, and other features. The illustration below identifies the controls most useful to you.



# Converting CD Audio to MP3

There are several ways to convert music from a CD to MP3. The following instructions represent one of the preferred methods.

*To convert CD audio tracks to MP3 files:*

1. Insert a CD into your CD-ROM drive.
2. On the Window menu, choose Audio CD (or the name of the CD).
3. Click the name of a track that you want to convert to MP3.
4. Click Add to Converter.
5. When you have added all of the files you want to convert into the Converter, select “SoundJam MP3 Encoder” from the “Convert using” menu. Then, click on the “Start converting” button.

This conversion uses the default configuration. You may want to change the configuration later, but for now the default settings will supply excellent quality MP3 files for your NOMAD II.

The “Start converting” button changes to “Stop converting” and the progress of the file conversion is shown in a bar on the lower left of the window.

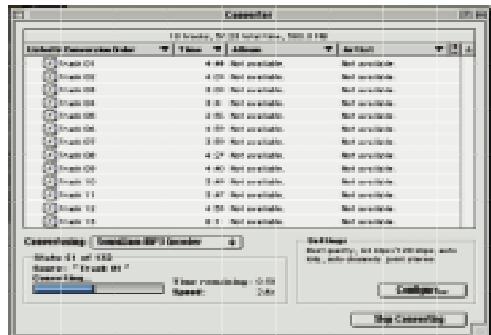
6. When the conversion is complete, the playlist window reopens displaying the newly converted MP3 files.
7. Connect the NOMAD II to your Mac; the NOMAD II window opens automatically.
8. Select the files in the SoundJam playlist that you want to load into the NOMAD II and drag them into the NOMAD II playlist.

Or, click Add in the NOMAD II window and select the files you want to load into the Player.

9. Once the files are in the NOMAD II window, they are automatically transferred to the Player.

Other methods that you can use to convert CD tracks to MP3 files include:

- On the Windows menu, choose Converter. Insert a CD in your CD-ROM drive. When CD-ROM drive icon is displayed on the desktop, double-click on it. Select the icons representing the tracks you want to convert and drag them into the Converter window.
- On the Window menu, choose Converter. Open a playlist of the tracks you want to convert. Drag the track names from the playlist into the Converter.



# MP3 Primer

## What is MP3?

MP3 is an acronym for Moving Picture Experts Group (MPEG) Layer 3—an audio data compression standard that can reduce the size of digital sound files by a 12:1 ratio with virtually no loss in quality. It is an efficient method of storing high-quality music or other audio content on your computer.

MP3 files can be very small—compared to the size of a commercial CD audio file—yet retain high sound quality. MP3 files usually have the file name extension .MP3, and can be downloaded from the Internet, or can be legally made for personal use from audio CDs that you purchase.

## MP3 Conversion

### Extracting from an Audio CD



It is illegal to encode MP3 files for trade or sale unless you have the expressed and explicit permission of the copyright holder(s).

Audio CD *extraction* is the first phase in the MP3 conversion process. *Extraction* is the reading of data from an audio CD and storing it temporarily on your hard drive. The audio data is extracted from the CD file by means of an application (commonly called a *ripper*) and copied to a file on your computer's hard disk drive.

The time required for extracting data from an audio CD depends on the speed of the CD-ROM drive. The speed ratings commonly seen on CD-ROM drives—such as 8X, 24X, etc.—refers to the speed at which it can read data. Your particular drive may be fast for data, but slow for audio.

Another factor is the condition of the CD, such as defects or scratches on its surface. When playing the audio CD in a CD-ROM drive, the data lost due to error is negligible. But when data is read incorrectly and put through the MP3 encoding phase, the distortion is highly noticeable. To avoid distortion, the audio CD extraction software may read the data two or three times to make sure it is read correctly. This error-checking feature is an option in most audio CD data extraction software—be sure error-checking is enabled in your audio CD extraction software.

## Encoding to MP3



It is illegal to encode MP3 files for trade or sale unless you have the expressed and explicit permission of the copyright holder(s).

The data extracted from an audio CD is usually in .WAV format. The encoder reads .WAV data and outputs MP3 data. These data are put into an MP3 file.

MP3 encoding is the compressing of data by transforming it into the frequency domain. MP3 encoding/compression is quality-loss compression and the amount of loss (of quality) is dependent upon the sampling rate of the output and the bit rate of the output. The higher the sampling and bit rates used, the better the quality of the sound. This leads to more data storage and memory requirements. The amount of memory required for the NOMAD II player is proportional to audio playback time.

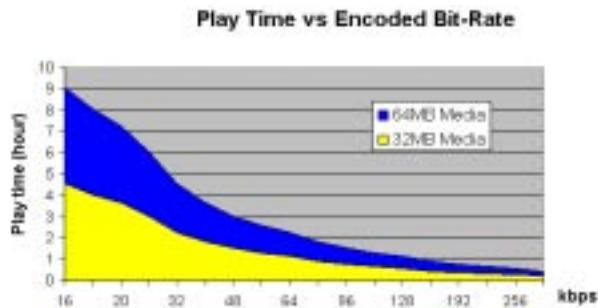
For optimal quality, set your encoding bit rate at 128 kbps when you create MP3 files from audio CDs using Creative Digital Audio Center.

## MP3 Files on the Internet

Through Internet web sites, you can download MP3 files either with or without charge, and get information about the latest techniques and software related with MP3.

Examples of web sites with MP3 content are:

<input type="checkbox"/> NOMAD World	<a href="http://www.nomadworld.com">http://www.nomadworld.com</a>
<input type="checkbox"/> Amp3	<a href="http://www.Amp3.com">http://www.Amp3.com</a>
<input type="checkbox"/> ArtistOne, Inc.	<a href="http://www.ArtistOne.com">http://www.ArtistOne.com</a>
<input type="checkbox"/> Big Heavy World	<a href="http://www.BigHeavyWorld.com">http://www.BigHeavyWorld.com</a>
<input type="checkbox"/> Cductive	<a href="http://www.Cductive.com">http://www.Cductive.com</a>
<input type="checkbox"/> EMusic	<a href="http://www.EMusic.com">http://www.EMusic.com</a>
<input type="checkbox"/> Epitonic	<a href="http://www.Epitonic.com">http://www.Epitonic.com</a>
<input type="checkbox"/> Sound Click	<a href="http://www.SoundClick.com">http://www.SoundClick.com</a>
<input type="checkbox"/> The Digital Music Co.	<a href="http://www.TDMCINC.com">http://www.TDMCINC.com</a>



# Technical Specifications

## NOMAD II Player (DAP-3204)

### Size (W x H x D)/ Weight

- 65 x 93 x 21 mm / 88g (without battery)

### Memory

- 32MB onboard memory

Type of removable memory

- 1 x SmartMedia™ slot

### Interface

- USB (using standard USB cable or via optional docking station)

### LCD Display

- 132 x 64 bitmapped backlit

### Standard Playback Usage

- 1 x AA Alkaline
- 8-10 hours for MP3/voice playback

### Signal to Noise Ratio

- 95 dB

### Frequency Response

- 20 Hz - 20 KHz

### Maximum Output

- 5-7 mW

### Harmonic Distortion Output

- 0.05% at 1 khz with 32 ohm load

**DSP**

- Five presets and one user setting: bass and treble control

**Audio Codec support**

- MPEG Audio Layer 3 (MP3) and future formats\*

**Firmware**

- Flash based. User upgradable\*

**SDMI Compliance**

- Hardware ready\*

**FM**

- 87.5 to 108mhz

**Voice Recording**

- G721 ADPCM encoding at 32kbps. Up to 4 hour recording on 64MB SmartMedia.

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\* Future audio codec support, firmware upgrades, and SDMI compliance will be available on  
**[www.nomadworld.com](http://www.nomadworld.com)**

# Troubleshooting

## ***My NOMAD II Player is not detected automatically when I connect it to my computer.***

### **Cause**

Your Player may not be connected correctly to the computer.

### **Solution**

Check the connections between the Player and your computer (see “Connecting the NOMAD Player to a Computer” on page 8).

## ***The NOMAD II PlayCenter 2 takes a long time to play large voice recordings.***

### **Cause**

The PlayCenter 2 takes some time to prepare the voice recording for playback.

### **Solution**

You can wait for the PlayCenter 2 to prepare the file or you can convert the voice recording file to a .WAV file. The .WAV file is larger than the original voice recording file but will begin to play quicker.

To convert the voice recording to a .WAV file, locate the file with Windows Explorer, right-click the file name, and, in the menu, select “Convert to WAV.”

***The Player isn't able to read the flash memory card formatted with Media Card reader/writer.***

**Cause**

NOMAD II only supports Solid State Floppy Disc Card (SSFDC) format (FAT12).

Windows 98 detects the Media Card reader/writer as an external removable drive in Windows Explorer. You can only format the flash memory card into FAT16 format with the Media Card reader/writer and NOMAD II is unable to recognize the FAT16 format.

**Solution**

To format the flash memory card, you need to obtain a software utility from the Media Card reader/writer vendor that supports SSFDC format (FAT12).

***My computer doesn't recognize the NOMAD II Player when it's connected.***

**Cause**

The Player may not be correctly connected or the drivers may not be correctly installed on your computer.

**Solution**

Check the connections (see “Connecting the NOMAD Player to a Computer” on page 8) between the Player and your computer.

Check the driver installation by clicking Start on the Windows Taskbar, select Settings, and click on Control Panel. On the Control Panel, double-click the System icon. Click the Device Manager tab, scroll toward the bottom of the Device Manager window to locate Universal Serial Bus Controller, and click on the plus ( + ) sign next to the icon. Creative NOMAD II must be listed.

If it is not listed or there is an exclamation point on its icon, re-install the NOMAD II drivers (see “Installing the NOMAD II Driver” on page 9).